TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	Marriage Community Hall in Jakkur	Date of Sampling	04-08-2020
Period of Soaking	24 hours	Date of Testing	05-08-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	644	652	666	
B	Weight of oven - dry sample gm.	635	644	656	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1680	1685	1694	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.661	2.656	2.658
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.417	1.242	1.524	1.395

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	05-08-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	98 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	456 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	Marriage Community Hall in Jakkur	Date of Sampling	05-08-2020
		Date of Testing	05-08-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	225	225	7.50	92.50	90 - 100
2.36 mm	305	530	17.67	82.33	75 - 100
1.18 mm	412	942	31.40	68.60	55 - 90
0.600 mm	492	1434	47.80	52.20	35 -59
0.300 mm	742	2176	72.53	27.47	8-30
0.150 mm	636	2812	93.73	6.27	0 - 10
Pan	188	3000			-

Remarks : Satisfactory / Not Satisfactory

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	15-08-2020
Period of Soaking	24 hours	Date of Testing	16-08-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	668	670	653	
B	Weight of oven - dry sample gm.	659	662	644	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1695	1696	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.659	2.650	**2.655**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.366	1.208	1.398	**1.324**

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Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant		Date of Sampling	15-08-2020	
			Date of Testing	16-08-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	516	516	5.16	94.84	90-100
10.0	4528	5044	50.44	49.56	40-85
4.75	4322	9366	93.66	6.34	0-10
Pan	634	10000			

Remarks : Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	15-08-2020	
			Date of Testing	16-08-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	278	278	2.78	97.22	95 - 100
10.00 mm	4842	5120	51.20	48.80	25 - 55
4.75 mm	4246	9366	93.66	6.34	0 - 10
Pan	634	10000			

Remarks : Satisfactory / Not Satisfactory

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Project Division
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BBMP, Bangalore - 92

TEJUS
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Test Report on Cement

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	16-08-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	103 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	458Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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BBMP, Bangalore - 92

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Test Report on Cement

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	17-08-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	488 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant		Date of Sampling	16-08-2020	
			Date of Testing	17-08-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	536	536	5.36	94.64	90-100
10.0	4582	5118	51.18	48.82	40-85
4.75	4364	9482	94.82	5.18	0-10
Pan	518	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	16-08-2020	
			Date of Testing	17-08-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	270	270	2.70	97.30	95 - 100
10.00 mm	4812	5082	50.82	49.18	25 - 55
4.75 mm	4236	9318	93.18	6.82	0 - 10
Pan	682	10000			

Remarks : Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	16-08-2020
		Date of Testing	16-08-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	315	523	17.43	82.57	75 - 100
1.18 mm	422	945	31.50	68.50	55 - 90
0.600 mm	488	1433	47.77	52.23	35 -59
0.300 mm	776	2209	73.63	26.37	8-30
0.150 mm	630	2839	94.63	5.37	0 - 10
Pan	161	3000			-

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	16-08-2020
Period of Soaking	24 hours	Date of Testing	17-08-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	653	668	648	
B	Weight of oven - dry sample gm.	644	659	639	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1695	1682	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.650	2.657	2.651	**2.653**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.398	1.366	1.408	**1.391**

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Project Division
Yelahanka Zone
RBMP, Bangalore - 92

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	M sand		Proposed Use	concrete	
Sample Location	At Plant		Date of Sampling	17-08-2020	
			Date of Testing	17-08-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	203	203	6.77	93.23	90 - 100
2.36 mm	322	525	17.50	82.50	75 - 100
1.18 mm	415	940	31.33	68.67	55 - 90
0.600 mm	492	1432	47.73	52.27	35 -59
0.300 mm	775	2207	73.57	26.43	8-30
0.150 mm	625	2832	94.40	5.60	0 - 10
Pan	168	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	20-08-2020	27-08-2020	7 days	8.135	22500	376	16.71	16.58
2	20-08-2020	27-08-2020	7 days	8.142	22500	373	16.58	
3	20-08-2020	27-08-2020	7 days	8.132	22500	370	16.44	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	20-08-2020	17-09-2020	28 days	8.140	22500	584	25.96	26.04
2	20-08-2020	17-09-2020	28 days	8.135	22500	586	26.04	
3	20-08-2020	17-09-2020	28 days	8.136	22500	588	26.13	

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Yelahanka Zone
BBMP, Bangalore - 92

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-08-2020	28-08-2020	7 days	8.142	22500	376	16.71	16.71
2	21-08-2020	28-08-2020	7 days	8.140	22500	378	16.80	
3	21-08-2020	28-08-2020	7 days	8.138	22500	374	16.62	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-08-2020	18-09-2020	28days	8.136	22500	585	26.00	26.06
2	21-08-2020	18-09-2020	28days	8.140	22500	588	26.13	
3	21-08-2020	18-09-2020	28days	8.142	22500	586	26.04	

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-08-2020	29-08-2020	7 days	8.128	22500	377	16.76	16.76
2	22-08-2020	29-08-2020	7 days	8.133	22500	379	16.84	
3	22-08-2020	29-08-2020	7 days	8.138	22500	375	16.67	

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-08-2020	19-09-2020	28days	8.138	22500	588	26.13	26.16
2	22-08-2020	19-09-2020	28days	8.140	22500	590	26.22	
3	22-08-2020	19-09-2020	28days	8.142	22500	588	26.13	

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TEJUS
CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Cross sectional area	60000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	26-08-2020	27-08-2020	60000	258.00	4.30	4.24	4.00
2	26-08-2020	27-08-2020	60000	256.00	4.27		
3	26-08-2020	27-08-2020	60000	250.00	4.17		

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